

How the heating works

When you program Zone 5 for the Hall, you should get a temperature of approximately 18 deg C. When you program Zone 6 for the Hall (only for Senior Citizens, as you said yesterday), you should get a temperature of about 20 deg C. If the thermostat is still calling for heat, then the high level convector heaters should be ON when either Zone 5 or Zone 6 is programmed.

Unfortunately, life is not that simple ! There are only 3 "pipework circuits" in the building, as follows:

- (a) From the boiler - through the Chapel - and return to the boiler.
- (b) From the boiler - through the Snug, Foyer, Vestry and Library - and return to the boiler.
- (c) From the boiler - through the Hall, Playgroup and Youth Rooms - and return to the boiler.

In the case of (b) above, this doesn't really cause any problems. If heating is programmed for the Library, hot water passes through the Foyer radiators and everyone enjoys some heat on the way to the Library. If heating is programmed for the Snug, foyer etc. then hot water will pass through the Library convectors but the fans will not be on - so little heat is wasted.

In the case of (c) above, this causes some complications !! Heating comes on early each morning in the Playgroup and Youth Rooms. As a result, hot water starts to flow through all the pipework in the **Hall** as well as in the **Playgroup** and **Youth Room**.

Although no heating has been requested in the Hall so early in the day, hot water will flow through the 2 low level radiators and start to heat up the Hall. (It will also flow through the high level convectors, but the fans aren't on, so will have little effect.)

Once the heating is timed to be ON in the Hall, the high level heaters will come ON - **UNLESS** the temperature of 18 deg C has already been reached.

On a typical day, when it is not freezing outside, the temperature of 18 deg C will have been reached. This would mean that, when you enter the Hall, you find the high level heaters are OFF (because the thermostat says the heat requirement has been satisfied) but the 2 radiators remain ON because the thermostatic radiator valves (at the end of the radiators) are slow to close.

You may conclude (wrongly) that the high level heaters only come ON when Zone 6 is programmed. They do, in fact come ON when either Zone 5 or Zone 6 is selected - but you may not see it because the Hall is partially heated early on by hot water passing through the pipes to satisfy the requirement in the Playgroup and Youth Room.

I believe Hall users are increasingly aware that they can press the "Over-ride" button on the white box at the far end of the Hall. It doesn't matter whether heating is programmed to be on or not - pressing the button on the white box will start heating in the Hall for 0.5 Hour, 1 Hour or 2 Hours. It brings on Zone 6 - i.e. the higher temperature of 20 deg C.

I hope this explains some of what is happening in the Hall / Playgroup / Youth Room regarding heating. You would imagine that programming heating for the Playgroup and Youth Room would not affect the Hall, but unfortunately it does - because the hot water is passing through all the Hall radiators and convector heaters on its way to the Playgroup and Youth Room.